Extremely Compact & Superior Performance Superb Outdoor Amateur Radio Operation

HF/50/144/430MHz All Mode Transceiver

FT-818ND



Portability, Wide Band & Full Features HF through UHF



Transmit Frequency Bands	1.8MHz	3.5MHz	5.3MHz	7MHz	10.1MHz	14MHz	18MHz	21MHz	24MHz	28MHz	50MHz	i	144MHz	430MHz
Receiver Frequency	0.1MHz										56MHz	76MHz	154MHz	420MHz — 470MHz
rrequestoy					10	-				5	0	100		400 Frequency [MHz]

^{*} Specified performance: Amateur bands only

6W Transmit Power Output

The FT-818ND provides 6 Watts of TX power output (SSB/CW/FM), and selection of four TX power levels, 6W/5W/2.5W/1W on all bands (13.8VDC input), (AM 2W). When using the SBR-32MH battery pack or "AA" alkaline cells, the FT-818ND automatically sets the TX power level to 2.5 Watts, to conserve power (however the TX power may be switched to 6W or others).

High Stability TCXO Built-In

Built-in TCXO provides ±0.5ppm high frequency stability (-10°C to +60°C) and maintains stable high-quality communication for SSB operation in the VHF/UHF band, and CW operation within a narrow band. (±0.5ppm (CW/SSB/AM), ±1kHz ±0.5ppm (FM))

1900mAh Ni-MH Battery pack Included and Versatile Selection of Power Sources

Simple and convenient outdoor operation in any environment, the FT-818ND is ready to operate from multiple power sources:

- Supplied 1900mAh high-capacity Ni-MH battery pack (and battery charger)
- Supplied Alkaline Battery case, (8 alkaline "AA" cells not included).
- External 13.8VDC power source (External DC cable supplied)

Ultimate Compact and Light Weight

Measures 5.31"x1.5"x6.5" (135x38x165mm), Light weight (under 2 pounds / 900g), the FT-818ND is an innovative Multi-band, Multi-mode Portable transceiver within an Ultra Compact body. Outdoor portable operation may be enjoyed with the same convenience as a handheld transceiver.



Multi-Modes from HF to UHF bands Condensed into a Compact body

Operating on amateur radio bands from 160m to 70cm, it is capable of all modes SSB/CW/AM/FM. This wide-coverage transceiver makes a wide variety of amateur radio operations enjoyable, regardless of the band and mode, even in the Outdoors.

*C4FM Digital mode is not supported.

Versatile Operating Features for the Comfortable Field Operation

- · Split-frequency operation in DX pileups, using VFO-A and VFO-B.
- Adjustment of SSBTX and RX carrier insertion point, for customization of audio response (±300Hz)
- · RF GAIN control
- AGC Selections: FAST/SLOW/AUTO/OFF
 VOXT/R control
- Modulation and SWR indicators
- ±9.99kHz Clarifier

Full Featured CW Operation for Portable Operations

- CW "Semi Break-in": The Tx to Rx recovery delay is programmable from 10ms to 2500ms (10ms steps).
- CW Reverse: Provides BFO injection on LSB instead of the default USB.
- CW Pitch Control: Adjusts TX offset and associated side tone between 300Hz and 1000Hz in 50Hz steps; this allows precise spotting on DX stations. Side tone audio level is adjustable.
- Built-in Electronic CW Keyer, with adjustable speed 4 WPM to 60 WPM, and Weight (Dot / Dash Ratio) adjustable between 1:2.5 and 1:4.5.
- For temporary use, the Microphone [UP] / [DWN] buttons may be set-up to key the "Dot" / "Dash" on CW.

High Performance Collins® Mechanical Filters for SSB and CW (Optional)

A slot is provided inside the FT-818ND to permit installation of a 2.3kHz, 500Hz or 300Hz optional Collins® Mechanical Filter. The chosen filter will enhance receiver performance.





YF-122C (500Hz)
 YF-122CN (300Hz)

Base Station Performance

The FT-818ND has base station class performance from a very compact transceiver.

- IPO (Intercept Point Optimization): Bypasses the RX Preamp on HF and 50MHz for improved performance during strong-signal conditions.
- ATT (Front End Attenuator): For more pleasant reception of very strong signals (HF/50MHz).
- IF Noise Blanker: For reduction of ignition and other impulse-type noise.
- IF Shift: For reduction of adjacent-frequency interference.

Two Antenna Connectors to Simplify Installation and Operation

The FT-818ND is equipped two antenna connectors, a BNC-type on the front panel and an M-type on the rear panel. For portable and field operation the supplied whip antenna may be connected to the BNC connector. The Menu system allows setting which antenna connector will be selected for the operating bands.





Front Panel (BNC)

Rear Panel (M type)

208 Memory Channels

Memory channels can be stored with the Transmit and Receive Frequencies, and 8-character alphanumeric tags. Also, the QMB (Quick Memory Bank) feature allows calling up a pre-set memory and call with one touch, enabling efficient operation.

Multi-Function Control Keys for Easy Feature Access

The "SELECT" knob, together with the "[A] [B] [C]" keys, provides ease of operation and quick efficient access to the many high-performance features. The convenient "Menu" mode, permits customization of the operating functions.

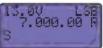


Multi-Functional Display for Easy Operation

A wealth of information is available on the Display.

- SSM (Spectrum Scope Monitor): Displays receiver activity ±5 channels from the operating frequency,
- Multi-color Display: The LCD illumination may be set to Blue, Amber or Violet color using the Menu.
- Double sized frequency display: Improves viewing in outdoor operation.







Spectrum Scope Monitor

Multi-Color Display

Double sized frequency display

Versatile Scan Features

Several scanning functions are supported, for handy and comfortable operation.

- VFO Scan
- Memory Scan
- Programmable Memory Scan (PMS)
- Dual Receive
- Priority Scan
- · Smart Search

Equipped with Dedicated Data Connector

Various data communication such as RTTY, PSK 31, and 1200/9600 bps packet communications are supported by the dedicated DATA connector on the back panel. Terminal equipment (TU /TNC) may be easily connect using the optional packet Interface cable (CT-39A).



DATA Connector

Valuable Features

- Wide-band Receiver (100kHz 470MHz)
- CAT System control interface
- CTCSS/DCS operation (FM mode)
- · ARTS (FM mode)
- · ARS (Automatic Repeater Shift)
- APO (Automatic Power-Off)
- TOT (TX Time-Out Timer)
- Memory / Setting data Cloning

■Specifications

General							
Frequency	1.8MHz - 50MHz bands						
Range	144MHz band, 430MHz band (Amateur bands only)						
Transmit:	5.1675MHz Alaska Emergency Frequency						
	(Depending on the version)						
Frequency	100kHz - 33MHz						
Range	33MHz - 66MHz						
Receive:	76MHz - 154MHz						
	420MHz - 470MHz						
Modes of	A1A (CW), A3E (AM)						
Emission	J3E (LSB/USB), F3E (FM)						
	F1D (9600bps packet)						
	F2D (1200bps packet)						
Channel Step	10Hz (CW/SSB), 100Hz (AM/FM)						
(Minimum)							
Antenna	50Ω, Unbalanced						
Impedance	(Front: Type BNC, Rear: Type M)						
Operating	14°F to +140°F						
Temperature Range	(-10°C to +60°C)						
Frequency	± 0.5ppm (CW/SSB/AM),						
Stability	± 1kHz ± 0.5ppm (FM)						
Supply voltage	Nominal: 13.8VDC ± 15%, Negative Ground						
	Operating: 8.0 - 16,0V, Negative Ground						
	FBA-28 (w/8 "AA" Alkaline Cells): 12.0V						
	SBR-32MH (Ni-MH Battery Pack): 9.6V						
Current	Squelched: 300mA (Approx.)						
Consumption	Receive: 450mA						
	Transmit: 2.4A (HF/144MHz band),						
	2.7A (430MHz band)						

Case Size	5.31" × 1.5" × 6.50"
(W×H×D)	(135 × 38 × 165mm)
Weight	1.98lbs (900g)
(Approx.)	without battery, antenna and Microphone

Output Power	6W (SSB/C	SSB/CW/FM), 2W (AM Carrier) BVDC					
Acculation	SSB Balanced Modulator						
ypes	AM	Low Level (Early Stage)					
	FM	Variable Reactance					
/ Maximum	FM: ±5kHz						
viation	FM-N: ±2.5kHz						
purious	-50dB (1.8	-50dB (1.8 - 28MHz bands)					
adiation	-60dB (50)	/144/430MHz bands)					
mier	at least 40	dB					
uppression							
pp. Sideband	at least 50dB						
uppression		Tr. or ever					
andwidth	J3E(SSB)	less than 3kHz					
	A1A(CW)	less than 500Hz					
	A3E(AM)	less than 6kHz					
	F3E(FM)	less than 16kHz					
SB Frequency esponse	400Hz - 2600Hz (-6dB)						
Microphone npedance	200 - 10kΩ (Nominal; 600Ω)						

*Specifications are subject to change, in the interest of technical	mprovement, without notice or obligation, and are guaranteed only within
the amateur hands	

Circuit	SSB/CW/A	Dauble-Conversion Superheterodyni						
Type	WFM	Single-Conversion Superheterodyne						
Frequencies		(1st) 68.33MHz / (2nd) 456kHz (1st) 10.7MHz						
Sensitivity	. 44.	SSB/CW AM FM						
	100kHz - 5	-		_	_			
	500kHz - 1.	_		32µV	_			
	1.8MHz - 2	0.25uV		2µV	-			
	28MHz - 3	0.25µV		2µV	0.5µV			
	50MHz - 5			2µV	0.32µV			
	144/430MH;	0.125µV		_	0.2µV			
	(IPO, ATT off, SSB/CW/AM = 10dB S/N, FM = 12dB							
Selectivity	(Mode)	6dB)	(-60dB)					
	SSB/CW	2kHz		4.5kHz				
	AM	kHz		20kHz				
	FM 15		5kHz		30kHz			
	FM-N 9		íkHz		25kHz			
	SSB	2.	3kHz		4,7kHz (-66dB) *1			
	CW.	50	OOHz	2.0kHz*2				
	CW	.34	00Hz		1.0kHz*3			
IF Rejection	60dB							
lmage	70dB (HF/50MHz Amateur bands)							
Rejection	60dB (144/430MHz Amateur bands)							
AF Output	1.0VV (8Ω, 10% THD or less)							
AF Output	4 - 16Ω							
form a store or a								
Impedance								

^{*1} optional YF-1225 installed *2 optional YF-122C installed

Radiation

■Options



MH-36E8J DTMF Microphone



MH-31A8J*1 Hand Microphone



Reference Microphone



Dual-Element Microphone



MD-200A&X Ultra High fidelity Desktop Microphone



MD-100A8X Desktop Microphone



Lightweight Stereo Headphone



YF-122S(2,3kHz) Collins® Mechanical Filter



YF-122C(500Hz) YF-122CN(300Hz) Collins® Mechanical Filter



SCU-17 USB Interface Unit (Requires CT-62)



CT-39A Packet Interface Cable



CT-62 CAT Computer Interface Cable



CSC-83 Soft Case



SBR-32MH*1 Ni-MH Battery Pack (9.6V 1900mAh)



PA-48*1 Battery Charger



ATAS-25 Active-Tuning Antenna (Manual Type)

About this brochure: We have made this brochure as comprehensive and factual as possible. We reserve the right, however, to make changes at any time in equipment, optional accessories, specifications, model numbers, and availability. Precise frequency range may be different in some countries. Some accessories shown herein may not be available in some countries. Some information may have been updated since the time of printing; please check with your Authorized Yaesu Dealer for complete details.



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^{*3} optional YF-122CN installed

^{*1} The same as the supplied Accessory